

WHAT IS CLAIMED IS:

1. An air transporter-conditioner device comprising:
 - 5 a housing having an air inlet and air outlet with air outlet louvers;
 - an ion generator positioned in said housing, and said ion generator can create an airflow from the air inlet to the air outlet;
 - a germicidal device located in the housing, which germicidal device can emit radiation in order to reduce the amount of microorganisms in the air passing through the housing; and
 - 10 said air outlet louvers being of sufficient width in the direction of airflow so that no radiation emitted directly from said germicidal device can exit said air outlet louvers.
2. The device of claim 1 wherein:
 - 15 said air inlet has air inlet louvers; and
 - said air inlet louvers being of sufficient width in the direction of airflow so that no radiation emitted directly from said germicidal device can exit said air inlet louvers.
3. The device of claim 1 wherein:
 - 20 said air outlet louvers are of sufficient length so that no radiation from the germicidal device after the radiation has reflected off any surface inside of the housing can exit said air outlet.
4. The device of claim 1 wherein:
 - 25 said air outlet louvers are elongated;
 - said ion generator has at least one elongated electrode; and
 - said air outlet louvers and said at least one elongated electrode are elongated in substantially the same direction.

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5. The device of claim 4 wherein:

said air inlet has air inlet louvers which are elongated; and

10 said air inlet louvers are elongated in substantially the same direction as said air outlet louvers and said at least one elongated electrode.

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6. A stand-alone air transporter-conditioner device comprising:

a housing having an air inlet and air outlet with air outlet louvers;

15 an ion generator positioned in said housing, and said ion generator, when energized, can create an airflow from the air inlet to the air outlet, said ion generator having at least one elongated electrode;

a germicidal device located in the housing, which germicidal device can emit radiation in order to reduce the amount of microorganisms in the air passing through the housing; and

20 said air outlet louvers, said at least one electrode, are all elongated in substantially the same direction.

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7. The device of claim 6 wherein said germicidal device is elongated in the same direction as said at least one electrode and said air outlet louver.

25 8. The device of claim 6 wherein:

said air inlet has elongated air inlet louvers which are elongated in substantially the same direction as said air outlet louvers, and said at least one electrode.

9. The device of claim 6 wherein:

said air inlet has air inlet louvers; and

25 said air inlet louvers being of sufficient width in the direction of airflow so that no radiation emitted directly from said germicidal device can exit said air inlet.

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10. The device of claim 6 wherein:

 said air outlet louvers are of sufficient length so that no radiation from the germicidal device can exit said air outlet.

5 11. The device of claim 6 wherein:

 said one electrode is planar; and

 said air outlet includes planar outlet louvers located adjacent to the one electrode; and
 said planar electrode is substantially parallel to the planar outlet louvers.

10 12. The device of claim 11 wherein:

 said air inlet includes planar inlet louvers which are substantially parallel to the planar outlet louvers.

13. The device of claim 6 wherein:

15 said germicidal device is a germicidal lamp that emits radiation.

14. The device of claim 6 wherein:

 said germicidal device directs radiation across a direction of airflow from the air inlet to the air outlet.

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15. The device of claim 1 wherein:

 said germicidal device is located in a germicidal device housing that directs radiation away from the air inlet and the air outlet.

25 16. The device of claim 1 wherein:

 said germicidal device is located in a germicidal device housing that directs radiation across

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a direction of airflow from the air inlet to the air outlet.

17. The device of claim 6 wherein:

said germicidal device is located in a germicidal device housing that includes louvers that direct radiation away from the air inlet and the air outlet.

18. The device of claim 6 wherein:

said germicidal device is located in a germicidal device housing that includes louvers that direct radiation across a direction of airflow from the air inlet to the air outlet.

10 19. The device of claim 6 wherein:

said germicidal device is positioned in said housing so that any radiation from the germicidal lamp does not directly exit the housing thorough the air inlet and the air outlet.

15 20. The device of claim 6 wherein:

said germicidal device is positioned in said housing so that any radiation from the germicidal lamp does not exit the housing without first bounding off a surface located in the housing so as to change the wavelength of the radiation.

20 21. An air transporter and conditioner device comprising:

an upstanding housing having an air inlet and an air outlet;
at least said air outlet having a plurality of upstanding outlet louvers which extend in a direction along the upstanding housing; and

an ion generator positioned in said housing, and said ion generator creating an airflow from the air inlet to the air outlet.

22. The device of claim 21 wherein:

said ion generator including a particle collector electrode which extends in the direction along the upstanding housing.

5 23. The device of claim 21 wherein:

said ion generator including a particle collector electrode which extends in the direction along the upstanding housing, and said particle collector electrode is substantially parallel to the upstanding outlet louvers.

10 24. The device of claim 21 wherein:

said ion generator includes an emitter electrode and a collector electrode, and wherein said emitter electrode is located more adjacent to the air inlet than the collector electrode, and the collector electrode is located adjacent to the air outlet.

15 25. The device of claim 21 wherein:

said ion generator includes an emitter electrode and a collector electrode, and wherein said emitter electrode is located adjacent to the air inlet and the collector electrode is located adjacent to the air outlet;

20 wherein said air inlet includes a plurality of upstanding inlet louvers which extend in a direction along the upstanding housing; and

said emitter electrode extends in the direction along the upstanding housing; and

said collector electrode extends in the direction along the upstanding housing.

26. The device of claim 21 further including:

25 a germicidal lamp positioned in said housing.

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27. The device of claim 21 further including:

a means for destroying germs positioned in said housing.

28. The device of claim 21 further including:

5 a germicidal lamp positioned in said housing, which germicidal lamp extends in a direction along said upstanding housing.

29. The device of claim 21 further including:

a removable germicidal lamp positioned in said housing; and

10 wherein said air inlet includes a removable air inlet panel which can be removed in order to remove said removable germicidal lamp.

30. The device of claim 21 further including:

a removable germicidal lamp positioned in said housing; and

15 wherein said air inlet includes a removable air inlet panel which can be removed in order to remove said removable germicidal lamp, and wherein said air inlet panel includes a plurality of upstanding louvers which extend along the direction of said upstanding housing.

31. The device of claim 21 further including:

20 a removable germicidal lamp positioned in said housing; and

wherein said air inlet includes a removable air inlet panel which can be removed in order to remove said removable germicidal lamp;

said housing includes a base and a top and a side located between said base and said top; and

25 wherein said removable air inlet panel is located in the side of said housing.

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32. The device of claim 1 wherein:

said upstanding housing is one of cylindrical, elliptical, egg-shaped, and oval.

33. An air transporter and conditioner device comprising:

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a vertical elongated housing having an air inlet and an air outlet;

at least said air outlet having a plurality of vertical elongated outlet louvers; and
an ion generator positioned in said housing, and said ion generator creating an airflow from

the air inlet and the air outlet; and

said ion generator including an elongated vertical particle collector electrode.

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34. The device of claim 33 wherein:

said ion generator includes an emitter electrode, and wherein said emitter electrode is located adjacent to the air inlet and the collector electrode is located adjacent to the air outlet.

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35. The device of claim 33 wherein:

said air inlet includes a plurality of vertical inlet louvers.

36. The device of claim 33 further including:

a germicidal lamp positioned in said housing.

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37. The device of claim 33 further including:

a means for destroying germs positioned in said housing.

38. The device of claim 33 wherein:

25 said upstanding housing is one of cylindrical, elliptical, egg-shaped, and oval.